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DATE MAILED: 11/14/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

33308 7590 11/14/2008 LOWE HAUPTMAN & BERNER, LLP 1700 DIAGONAL ROAD, SUITE 300 ALEXANDRIA, VA 22314 EXAMINER

MAPA, MICHAEL Y

ART UNIT PAPER NUMBER

2617

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/589.466	08/14/2006	François Pipon	4590-561	7224	

TITLE OF INVENTION: METHOD OF OPTIMIZING SCHEDULING IN A COMMUNICATIONS SYSTEM OF CDMA TYPE

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 02/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a						tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/589,466	08/14/2006			Francois Pipon				4590-561	7224
TITLE OF INVENTION									
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0 \$1810		02/17/2009	
EXAM	INER		ART UNIT	CLASS-SUBCLASS	S				
MAPA, MI	CHAEL Y		2617	370-335000					
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Com	nge of "Indicated, Use	Correspondence ation form e of a Customer		ap to rnativ single or a t attor II be p or typ he pa g an a	3 registered paten ely, e firm (having as a gent) and the name neys or agents. If o printed. e)	memb es of u no nam	er a 2	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):	۵	Individual 🗖 Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	th. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	s SMALL ENTITY state	ıs. See	37 CFR I.27.					TTY status. See 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) v ites Pat	will not be accepted ent and Trademark	d from anyone other the Office.	han th	ne applicant; a regi	stered :	ittorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name				Registration No.					
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	U.S.C. U.S.C. USPT rden, sl O NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection in depending upon the in the Chief Information On COMPLETED FORM	n or re is esti indivi Office IS TC	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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LOWE HAUPT	MAN & BERNER, L	MAPA, MICHAEL Y		
	L ROAD, SUITE 300	ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			2617	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 397 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 397 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/589,466	PIPON ET AL.	
Examiner	Art Unit	
Michael Mana	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.33 and MPEP 1308.

- 1. This communication is responsive to 08/14/06.
- The allowed claim(s) is/are 1-10.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08), Pacer No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summery (PTO-413).
 Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

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REASONS FOR ALLOWANCE

Information Disclosure Statement

 The information disclosure statement (IDS) submitted on 02/28/08 and 08/14/06 has been considered by the examiner.

Allowable Subject Matter

- Claims 1-10 are allowed.
- The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record either singularly or in combination fails to teach a method of optimizing scheduling in a communications network of CDMA type wherein an analysis device is positioned to detect base stations and wherein for each base station estimating the propagation channel, h(0,s)....h(L-1,s), with L the length of the propagation channel, estimating the received powers and determining the base station of the highest levels and wherein a reception filter is implemented for each base station of the group of active base station, where each slots and antenna configuration are estimated the signal to interference ratio and determining the services that can be ensured by comparing with the threshold values dependent on each type of service.

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Raghavan et al. (US Patent 6128500) discloses a method of optimizing scheduling in a communications network of CDMA type, wherein Raghavan discloses positioning an analysis device for detecting the base stations received at a measurement point as well as disclosing estimating the received powers for all detected base stations and determining the base station of the highest levels as well as disclosing a minimum signal to noise ratio wherein the pilot power observed needs to be above a minimum acceptable threshold. However, Raghavan et al. fails to teach for each base station estimating the propagation channel, h(0,s)...h(L-1,s), with L the length of the propagation channel and a reception filter is implemented for each base station of the group of active base station.

Ghosh (US Patent 5991285) discloses a CDMA communication system providing a plurality of communication type services wherein an analysis device detects the base stations received at a measurement point and estimating the received powers for all the detected base stations as well as determining the base station of highest levels and estimating for each slots a signal to interference ratio and determining the services that can be ensured by comparing with the threshold values dependent on each type of service. However, Ghosh fails to teach for each base station estimating the propagation channel, h(0,s)....h(L-1,s), with L the length of the propagation channel and a reception filter is implemented for each base station of the group of active base station.

Rappaport et al. (US Patent Publication 2004/0259554) discloses a system and method for efficient ray tracing propagation prediction and analysis of site specific model within a communication system wherein Rappaport et al. discloses positioning an

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analysis device for detecting the base stations received at a measurement point and estimating and measuring the length of the propagation channel as well as estimating the received powers for the detected base stations and determining the base stations of the highest levels as well as estimating signal to noise ratios and determining services that can be ensured by comparing with the threshold values dependent on each type of services. However, Rappaport et al. fails to teach for each base station estimating the propagation channel, h(0,s)...h(L-1,s), with L the length of the propagation channel and a reception filter is implemented for each base station of the group of active base station.

The prior art of record fails to teach claimed limitations of for each base station estimating the propagation channel, h(0,s)....h(L-1,s), with L the length of the propagation channel. As well as failing to teach a reception filter implemented for each base station of the group of active base stations. The prior art of record either singularly or in combination fails to teach the above claimed limitations for claim 1 and is therefore the reason for allowance. Claims 2-10 are dependent on claim 1 and is therefore allowed under the same reasons set forth above.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Mapa whose telephone number is (571)270Application/Control Number: 10/589,466

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5540. The examiner can normally be reached on MONDAY TO THURSDAY 8:00 AM -

5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nick Corsaro can be reached on (571)272-7876. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Mapa/

Examiner, Art Unit 2617

/NICK CORSARO/

Supervisory Patent Examiner, Art Unit 2617